IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE PATENT APPLICATION OF: Yao OUR FILE NO: 78227CIP1P1510 USCIP

SERIAL NUMBER: New Application GROUP: New Application

FILED: 12/16/2003 EXAMINER: New Application

TITLE: DOPED ABSORPTION FOR ENHANCED RESPONSIVITY FOR HIGH SPEED

PHOTODIODE

Information Disclosure Statement

Mail Stop Non-Fee Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Transmitted herewith is an Information Disclosure Statement (Form PTO-1449) in the above-captioned application with references.

Certification

This Information Disclosure Statement is submitted within three months of:

(i) the filing date of the above-identified U.S. National Patent application, or
(ii) the date of entry into the U.S. National Stage of the above-identified International Application, or
(iii) the date of entry into the U.S. National Stage of the International Application that has been assigned the above-identified U.S. Patent application number, whichever applies.

This Information Disclosure Statement is submitted prior to the mailing date of the first Office Action on the merits received by Applicant in the above-identified application.

This Information Disclosure Statement is submitted after three months from

(i) the filing date of the above-identified U.S. National Patent application, or
(ii) after three months from entry into the U.S. National Stage of the above-identified

- (ii) after three months from entry into the U.S. National Stage of the above-identified International Application; or
- (iii) the date of entry into the U.S. National Stage of the International Application that has been assigned the above-identified U.S. Patent application number, whichever applies; and after the mailing date of the first Office Action on the merits of the above-identified application, but prior to issuance of the earlier of any Final Action or Notice of Allowance sent in such application. The certification under 37 C.F.R. §1.97(e) is submitted separately or below, or the fee required under 37 C.F.R. §1.97(c) and § 1.17(p) is submitted herewith.

This Information Disclosure Statement is submitted after the earlier of the mailing date of a final rejection or Notice of Allowance sent in this application but before payment of the Issue Fee. The certification required under 37 C.F.R. § 1.97(e) is submitted separately or below. A petition to the Commissioner and the appropriate fee pursuant to §1.17(i) (1) are submitted herewith.

A certification under 37	C.F.R §1.97 is submitted herewith separately from this paper.							
It is hereby certified that each item of information contained in this statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.								
patent office in a counter making reasonable inqu	contained in this statement was cited in a communication from a foreign repart foreign application or, to the knowledge of the undersigned, after ry, was known to any individual designated in 37 C.F.R. §1.56(c) prior to the filing of this statement.							
ly submitted,	December 16, 2002							
Wands	December 16. 2003 Date:							
n No: 25,649	Date.							
us Center Orange Avenue								
	It is hereby certified that communication from a for three months prior to the No item of information of patent office in a counter making reasonable inquirement more than three months purposed by submitted, Wands in No: 25,649							

Tel: Fax: (321) 725-4760 (321) 984-7078

Form P	TO 1	Form PTO 1449			CKET NUMBER:		SERIAL NUMBER:				
U.S. Department of Commerce Patent and Trademark Office Information Disclosure Statement by Applicant			78227CIP	New	New Application						
			APPLICANT:								
			YAO								
			FILING DATE: 12/16/2003			GROUP:					
			NEW APPI	New	NEW APPLICATION						
				U.S. Pate	ent Documents						
EXAMINER INITIAL	INITIAL		DATE		Name		CLASS	SUBCL ASS	FILE		
			Oct	t 6, 1998	5,818,096		257/458	3			
	В	Lovejoy	Nov	4, 1997	5,684,308	5,684,308		ļ			
	•			Foreign Pa	atent Documents						
		DOCUMENT NUMBER DATE		COUNTRY		CLASS	SUBCLASS	Transi	Translation		
								YES	No ·		
·		Other Docu	ıments (Including Au	thor, Title, Date Pertin	ent Pages,	Etc.)				
	С		Shimizu et al., "InP-InGaAs Uni-Traveling-Carrier Photodiode With Improved 3-dB Bandwidth of Over 150 GHz", IEEE Photonics Technology Letters, Vol. 10, No. 3, March 1998, Pages 412-414.								
**	D		Kato et al., "Design of Ultrawide-Band, High Sensitivity p-i-n Photodetectors", Journal of Lightwave Technology, Vol. 8, Issue 4, 1990, pp. 531-537.								
	E		S.L. Chuang, <i>Physics Of Optoelectronic Devices</i> , Wiley Series in Pure and Applied Optics, John Wiley and Sons, 1995.								
	F		Hollenhorst, "Frequency Response Theory for Multilayer Photodiodes", Journal of Lightwave Technology, Vol. 8, No. 4, April 1990, pp. 531-537								
	G	S.M. Sze, Semiconductor Devices Physics and Technology, p. 283.									
	Н	Streetman, Sol Third Edition,			vices, Prentice Hall Ser	ries in Solic	State Phy	sical Elect	ronics,		
	I				ency Photodetectors',I .7 July 1999, pp 1265-1		sactions on	Microwa	ve		

EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP 609; draw a line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant